

# MMWR

MORBIDITY AND MORTALITY WEEKLY REPORT

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## Serious Eye Injuries Associated with Fireworks — United States, 1990–1994

Eye injuries caused by fireworks are often severe and can cause permanently reduced visual acuity or blindness. Findings from the National Electronic Injury Surveillance System database maintained by the U.S. Consumer Product Safety Commission (CPSC) indicate that approximately 12,000 persons are treated each year in U.S. emergency departments because of fireworks-related injuries; of these, an estimated 20% are eye injuries. To improve characterization of fireworks-related eye injuries, data were analyzed from the United States Eye Injury Registry (USEIR) for July 1990–December 1994 and from the Eye Injury Registry of Alabama (EIRA) for August 1982–July 1989. This report summarizes the findings of these analyses.

### United States Eye Injury Registry

USEIR, a nonprofit organization sponsored by the Helen Keller Eye Research Foundation, is a federation of state eye registries that uses a standardized form to obtain voluntarily reported data on eye injuries and to obtain 6-month follow-up information. Reports are made by ophthalmologists to the USEIR database in Birmingham, Alabama. The primary purpose of USEIR is to provide prospective, population-based, epidemiologic data to improve the prevention and control of eye injuries. The registry contains information only for patients who have sustained a serious eye injury, defined as "an injury resulting in permanent and significant, structural or functional ocular change." USEIR comprises 39 state registry affiliates (representing 89% of the U.S. population); 32 states registered injuries during 1990–1994, and 27 states reported fireworks-related injuries during this period.

From July 1990 through December 1994, a total of 4575 serious eye injuries from all causes were reported to USEIR; of the 274 (6%) fireworks-related injuries, 255 (93%) were unintentional injuries. Persons injured by fireworks were aged 4–63 years (median: 15 years); 211 (77%) were males. The largest proportion (123 [45%]) of injured persons were bystanders; 96 (35%) were fireworks operators, and for 55 (20%), status was unknown. Most (219 [80%]) injuries occurred during the Independence Day holiday period\*; 44 (16%) occurred during the New Year's holiday period\*, and 11 (4%) at other times. Most (67%) injuries occurred at home; injuries also occurred in recrea-

\*The number of days for the holiday period varied each year.

*Fireworks-Associated Serious Eye Injuries — Continued*

tional settings (14%), on a street or highway (5%), and in parking lots or occupational settings (1%). Location was unknown for 13%.

Most injuries were caused by bottle rockets (58%) (Figure 1). Bottle rockets accounted for 68% of the injuries to bystanders.

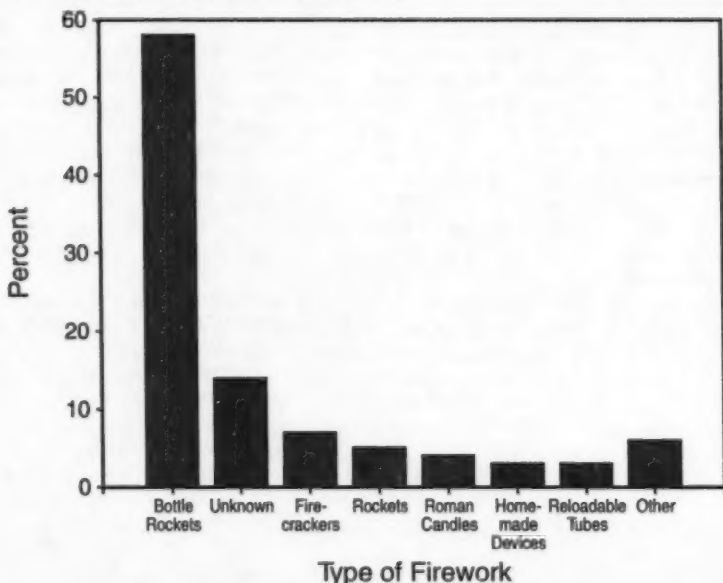
**Eye Injury Registry of Alabama**

A retrospective review was begun in 1989 of severely injured persons registered from August 1982 through July 1989 through the EIRA, the first state registry of USEIR. Reports to the EIRA are made by Alabama ophthalmologists. Data were obtained from EIRA standard report forms and from direct interviews with each injured person and/or family members.

Of the 70 fireworks-related injuries reported, 40 (57%) occurred during the Independence Day holiday period, and 27 (39%) occurred during the New Year's holiday period. These injuries resulted in legal blindness in 31 (44%) injured persons; in addition, enucleation was required for seven (10%). Bottle rockets accounted for 58 (83%) injuries, including eight of 10 injuries resulting in permanent damage to the optic nerve and all those resulting in enucleation.

Patients who sustained eye injuries resulting from bottle rockets reported that factors associated with their injuries included product misuse, (e.g., the intentional aiming of the device at others ["bottle rocket wars"]) and throwing the device after it had been lit but before ignition), device malfunction (especially immediate explosion

**FIGURE 1. Percentage of fireworks-related serious eye injuries, by type of firework — United States Eye Injury Registry, 1990–1994**



*Fireworks-Associated Serious Eye Injuries — Continued*

after ignition), erratic flight characteristics even when used according to manufacturers' instructions, and device ricochet off hard surfaces (e.g., a car or the street).

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**Editorial Note:** Irreversible consequences—including reduced visual acuity and blindness—can result from the use of consumer fireworks, especially bottle rockets. Analysis of the USEIR database indicated that a high proportion of fireworks-related injuries occurred among young males—a finding consistent with previous reports (1,2). These findings are similar to the results of a study in Washington in which injuries were associated with improper use (both intentional and unintentional), product malfunctions (e.g., short fuses, erratic flight, or tip-over), and high temperature (2).

Consumer fireworks—including bottle rockets (classified as 1.4G [formally known as Class C] fireworks)—have been banned in 10 states (Arizona, Connecticut, Delaware, Georgia, Massachusetts, Minnesota, New Jersey, New York, Rhode Island, and Vermont). Six states (Illinois, Iowa, Maine, Maryland, Ohio, and Pennsylvania) permit the use only of sparklers and other novelties (e.g., poppers, wheels, and snaps). The District of Columbia and 32 states allow at least some 1.4G fireworks to be sold. Nevada and Hawaii have no laws regulating fireworks except for local ordinances. The CPSC has banned firecrackers with >50 mg pyrotechnic composition (including cherry bombs, M-80s, and silver salutes) designed to detonate on or near the ground and reloadable shell devices with diameters exceeding 1.75 inches; bottle-rockets can contain up to 130 mg pyrotechnic composition.

Because of the risks for injury associated with bottle rockets and other fireworks, several organizations have made specific recommendations regarding their use. USEIR recommends that persons attend public fireworks displays; however, if persons choose to use fireworks, USEIR recommends that they not use bottle rockets, and when other fireworks are used, eye protection should be worn by operators, bystanders, and spectators. CPSC and USEIR also advise that young children should never use fireworks, older children should be supervised when using fireworks, fireworks should be used only outdoors, a source of water should always be nearby for fire and to douse malfunctioning fireworks, instructions should be read and followed carefully, and malfunctioning fireworks should not be relit.

Several states have prohibited bottle rocket sales, and such bans are supported by the American Academy of Ophthalmology (3), American Academy of Pediatrics (4), and American Public Health Association (5). Despite the advisories regarding the dangers of fireworks use and state bans on use, fireworks continue to cause serious eye injuries—fireworks purchasers often cross state borders during holiday seasons to obtain fireworks that are illegal in their own states. In addition, because USEIR is a voluntary registry and not all states are affiliated, the numbers presented in this report may underestimate the problem nationally. CDC, concurring with the USEIR recommendations, suggests that health-care providers urge patients and their families to attend professionally conducted public displays of fireworks.

#### References

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*Fireworks-Associated Serious Eye Injuries — Continued*

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3. Eye Safety and Sports Ophthalmology Committee. Fireworks remain serious health hazard and cause of blindness. San Francisco: American Academy of Ophthalmology, May 1995.
4. Committee on Injury and Poison Prevention. Children and fireworks. *Pediatr* 1991;88:652-3.
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**Achievement of Dietary Goals — Kansas, 1993**

Fat intake and other dietary factors are associated with increased risk for important chronic diseases, including cardiovascular disease and cancer (1-4). To characterize the nutritional behaviors of residents of Kansas, the Kansas Department of Health and Environment (KDHE) conducted a nutrition assessment survey in 1993 and has used the results as a baseline for monitoring progress toward attaining Healthy Kansas 2000 (HK2000) nutrition objectives. This report summarizes selected findings from the nutrition survey relative to three HK2000 objectives: 1) increase to 35% the proportion of adults who consume five or more daily servings of fruits and vegetables; 2) increase to 40% the proportion of adults whose dietary fat intake constitutes <30% of their total food-energy intake (a lower fat diet); and 3) increase to 70% the proportion of adults who consume  $\geq 600$  mg of calcium daily (75% of the Recommended Dietary Allowance for adults aged  $\geq 25$  years [5]).

A representative sample of 1387 civilian, noninstitutionalized adults (aged  $\geq 18$  years) was selected using a random-digit-dialing telephone method; 1119 (80.6%) completed the survey, and 268 (19.3%) persons refused or were unable to respond. The interviews were completed during June–July 1993. Participants responded to an interviewer-administered 24-hour dietary recall for the day before the call. Food portion sizes were estimated (e.g., a small apple is the size of a tennis ball), and a mention of a fruit or vegetable was used as a surrogate for a serving. Food Intake and Analysis Software was used to estimate nutrient amounts reported in the 24-hour dietary recall data (6). Point estimates were weighted by the age and sex of the Kansas population and by the number of adults in each household.

Overall, few (12.5%) respondents reported eating five or more fruits and vegetables during the previous day (Table 1); the prevalence of this behavior was higher among women (15.2%) than men (9.7%), and increased directly with age (persons aged 18–34 years: 7.0%; persons aged 35–64 years: 12.8%; and persons aged  $\geq 65$  years: 20.7%) and education (persons with  $\leq 12$  years of education: 9.5%; persons with 13–15 years: 12.1%; and persons with  $\geq 16$  years: 18.4%).

Nearly one third (29.8%) of respondents acquired <30% of their total food-energy intake from fat. The prevalence of this behavior was higher among women (33.4%) than men (26.5%), but did not vary by age or education. Approximately one half (47.9%) of respondents consumed  $\geq 600$  mg of calcium. The prevalence of this behavior was lower in women (40.7%) than men (55.3%) and varied inversely with age (persons aged 18–34 years: 56.3%; persons aged 35–64 years: 44.7%; and persons aged  $\geq 65$  years: 41.7%).

## Dietary Goals — Continued

**TABLE 1. Weighted estimates of selected nutritional behaviors, by sex, age, and education level — Kansas Nutritional Assessment Survey, 1993**

| Category               | ≥5 servings of<br>fruits and vegetables |                       | ≤30% of calories<br>from fat |               | ≥600 mg<br>calcium intake* |               |
|------------------------|---|-----------------------|------------------------------|---------------|----------------------------|---------------|
|                        | %                                       | (95% CI) <sup>†</sup> | %                            | (95% CI)      | %                          | (95% CI)      |
| <b>Sex</b>             |   |                       |                              |               |                            |               |
| Male                   | 9.7                                     | (±2.7)                | 26.5                         | (±4.2)        | 55.3                       | (±4.8)        |
| Female                 | 15.2                                    | (±3.1)                | 33.4                         | (±4.0)        | 40.7                       | (±4.1)        |
| <b>Age group (yrs)</b> |   |                       |                              |               |                            |               |
| 18–34                  | 7.0                                     | (±2.7)                | 30.8                         | (±5.5)        | 56.3                       | (±5.9)        |
| 35–64                  | 12.8                                    | (±3.1)                | 26.9                         | (±3.9)        | 44.7                       | (±4.4)        |
| ≥65                    | 20.7                                    | (±5.5)                | 36.7                         | (±6.8)        | 41.7                       | (±7.0)        |
| <b>Education (yrs)</b> |   |                       |                              |               |                            |               |
| ≤12                    | 9.5                                     | (±2.7)                | 26.8                         | (±4.3)        | 45.5                       | (±4.8)        |
| 13–15                  | 12.1                                    | (±3.5)                | 31.8                         | (±5.4)        | 45.3                       | (±5.7)        |
| ≥16                    | 18.4                                    | (±5.0)                | 32.5                         | (±5.9)        | 54.5                       | (±6.2)        |
| <b>Total</b>           | <b>12.5</b>                             | <b>(±2.1)</b>         | <b>29.8</b>                  | <b>(±2.9)</b> | <b>47.9</b>                | <b>(±3.2)</b> |

\*Weighted estimates based on nonpregnant and nonlactating participants (n=1101).

<sup>†</sup>Confidence interval.

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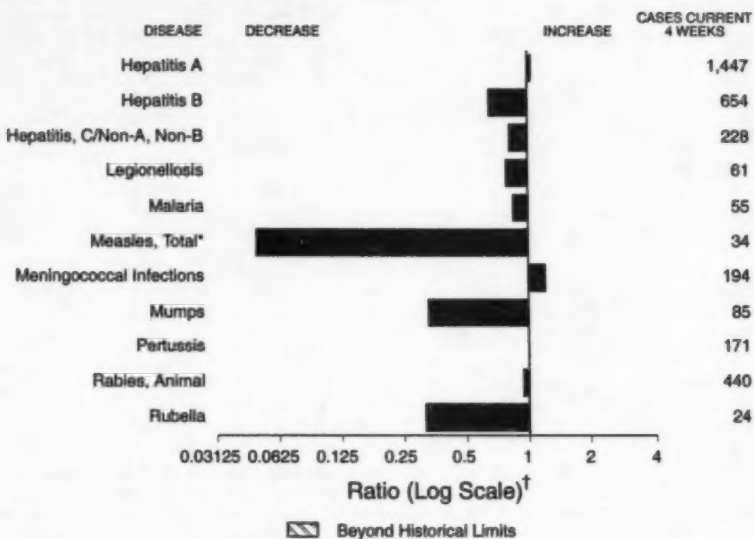
**Editorial Note:** The findings in this report indicate that most respondents did not meet the HK2000 goals, which were based on national nutrition guidelines (7) and were similar to the national health objectives for the year 2000 (4). Because national nutrition surveys (4) do not provide state-specific estimates and are often available only after prolonged periods, state population-based dietary surveys, such as that in Kansas, are essential for providing state-specific data to measure the effect of interventions and for monitoring progress toward state-specific year 2000 goals. The survey methodology used in Kansas may serve as a model for other states to establish baselines and to monitor the impact of interventions. KDHE plans to conduct these or similar surveys every 3–5 years.

The survey results from Kansas are subject to at least two limitations. First, because participants were interviewed during summer months when consumption of fruits and vegetables is likely to be higher than during other seasons of the year (8), reported fruit consumption may have been higher than if the survey had been conducted during other seasons. Second, 24-hour recall surveys may be less representative than multiple-day recall surveys because the actual amount of food consumed may differ from the usual intake of the respondent (9).

The results of the survey in Kansas are being used as a baseline for monitoring progress among statewide interventions. Kansas LEAN ("Low-fat Eating for America Now"), a state health department program involving a coalition of businesses, health agencies, schools and others, is working to improve dietary habits through interventions such as the statewide worksite promotion "Take the Challenge, Be a Leaner

(Continued on page 459)

**FIGURE 1. Notifiable disease reports, comparison of 4-week totals ending June 17, 1995, with historical data — United States**



\* The large apparent decrease in the number of reported cases of measles (total) reflects dramatic fluctuations in the historical baseline.

<sup>†</sup> Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

**TABLE 1. Summary — cases of specified notifiable diseases, United States, cumulative, week ending June 17, 1995 (24th Week)**

|                                 | Cum. 1995 |   | Cum. 1995 |
|---------------------------------|-----------|---|-----------|
| Anthrax                         | -         | Psittacosis                                     | 28        |
| Brucellosis                     | 39        | Rabies, human                                   | 1         |
| Cholera                         | 7         | Rocky Mountain Spotted Fever                    | 98        |
| Congenital rubella syndrome     | 4         | Syphilis, congenital, age < 1 year <sup>†</sup> | -         |
| Diphtheria                      | -         | Tetanus   | 12        |
| <i>Haemophilus influenzae</i> * | 589       | Toxic shock syndrome                            | 94        |
| Hansen Disease                  | 60        | Trichinosis                                     | 20        |
| Plague                          | 2         | Typhoid fever                                   | 137       |
| Poliomyelitis, Paralytic        | -         |   |           |

\*Of 576 cases of known age, 142 (25%) were reported among children less than 5 years of age.

<sup>†</sup>Updated quarterly from reports to the Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services. First quarter data not yet available.

-: no reported cases



TABLE II. Cases of selected notifiable diseases, United States, weeks ending June 17, 1995, and June 18, 1994 (24th Week)

| Reporting Area | AIDS*     |           |           | Hepatitis (Viral), by type |           |           |           |           |           | Legionellosis |           |
|----------------|-----------|-----------|-----------|----------------------------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|
|                | Gonorrhea |           |           | A                          |           | B         |           | C/NA,NB   |           | Cum. 1995     | Cum. 1994 |
|                | Cum. 1995 | Cum. 1995 | Cum. 1994 | Cum. 1995                  | Cum. 1994 | Cum. 1995 | Cum. 1994 | Cum. 1995 | Cum. 1994 |               |           |
| UNITED STATES  | 29,887    | 159,708   | 176,038   | 11,243                     | 10,165    | 4,403     | 5,313     | 1,957     | 1,978     | 585           | 609       |
| NEW ENGLAND    | 1,471     | 2,199     | 3,771     | 111                        | 150       | 84        | 192       | 49        | 72        | 12            | 12        |
| Maine          | 26        | 34        | 48        | 15                         | 12        | 6         | 9         | -         | -         | 3             | -         |
| N.H.           | 49        | 52        | 34        | 5                          | 7         | 11        | 15        | 5         | 5         | 1             | -         |
| Vt.            | 14        | 21        | 12        | 3                          | 2         | 1         | 5         | 1         | 6         | -             | -         |
| Mass.          | 852       | 1,277     | 1,326     | 44                         | 85        | 32        | 120       | 42        | 49        | 7             | 6         |
| R.I.           | 122       | 235       | 207       | 12                         | 13        | 8         | 3         | 1         | 12        | 1             | 6         |
| Conn.          | 608       | 580       | 2,144     | 32                         | 51        | 26        | 40        | -         | -         | N             | N         |
| MID. ATLANTIC  | 7,605     | 17,043    | 19,609    | 686                        | 717       | 531       | 694       | 171       | 241       | 66            | 85        |
| Upstate N.Y.   | 636       | 2,612     | 4,307     | 176                        | 252       | 169       | 189       | 89        | 105       | 21            | 19        |
| N.Y. City      | 3,952     | 6,128     | 7,377     | 318                        | 237       | 148       | 150       | 1         | 1         | -             | -         |
| N.J.           | 1,794     | 1,704     | 2,410     | 92                         | 152       | 131       | 187       | 69        | 111       | 14            | 15        |
| Pa.            | 1,023     | 6,599     | 5,515     | 80                         | 76        | 85        | 168       | 12        | 24        | 31            | 51        |
| E.N. CENTRAL   | 2,492     | 34,621    | 35,895    | 1,448                      | 950       | 461       | 548       | 130       | 173       | 163           | 240       |
| Ohio           | 544       | 11,323    | 10,765    | 902                        | 299       | 60        | 89        | 5         | 12        | 80            | 82        |
| Ind.           | 200       | 2,982     | 3,668     | 74                         | 154       | 107       | 103       | -         | 4         | 35            | 79        |
| Ill.           | 1,105     | 9,315     | 10,595    | 211                        | 278       | 89        | 154       | 31        | 47        | 13            | 20        |
| Mich.          | 502       | 8,500     | 7,656     | 179                        | 121       | 182       | 163       | 84        | 110       | 18            | 36        |
| Wis.           | 141       | 2,501     | 3,211     | 82                         | 98        | 23        | 39        | -         | -         | 17            | 23        |
| W.N. CENTRAL   | 697       | 8,499     | 9,650     | 706                        | 494       | 242       | 301       | 50        | 42        | 58            | 45        |
| Minn.          | 148       | 1,370     | 1,520     | 86                         | 101       | 25        | 38        | 1         | 9         | -             | -         |
| Iowa           | 40        | 674       | 621       | 38                         | 27        | 19        | 16        | 3         | 7         | 12            | 21        |
| Mo.            | 280       | 5,115     | 5,146     | 475                        | 209       | 159       | 216       | 31        | 7         | 33            | 12        |
| N. Dak.        | 2         | 13        | 20        | 14                         | 1         | 3         | -         | 3         | 1         | 3             | 4         |
| S. Dak.        | 7         | 78        | 68        | 16                         | 17        | 2         | -         | 1         | -         | -             | -         |
| Nebr.          | 61        | -         | 642       | 25                         | 76        | 16        | 16        | 5         | 8         | 7             | 6         |
| Kans.          | 159       | 1,248     | 1,613     | 50                         | 63        | 18        | 17        | 5         | 10        | 3             | 2         |
| S. ATLANTIC    | 7,773     | 47,504    | 46,565    | 539                        | 505       | 634       | 1,045     | 147       | 250       | 92            | 184       |
| Del.           | 154       | 812       | 835       | 7                          | 14        | 2         | 8         | 1         | -         | -             | -         |
| Md.            | 1,133     | 5,621     | 9,844     | 91                         | 79        | 102       | 187       | 5         | 15        | 19            | 37        |
| D.C.           | 464       | 2,173     | 3,376     | 6                          | 10        | 10        | 16        | -         | -         | 3             | 5         |
| Va.            | 552       | 5,133     | 5,678     | 94                         | 59        | 43        | 54        | 5         | 17        | 7             | 4         |
| W. Va.         | 36        | 294       | 328       | 11                         | 5         | 29        | 10        | 24        | 17        | 3             | 1         |
| N.C.           | 405       | 11,190    | 11,187    | 56                         | 55        | 144       | 129       | 27        | 29        | 17            | 12        |
| S.C.           | 398       | 5,822     | 5,654     | 20                         | 15        | 27        | 19        | 11        | 3         | 17            | 9         |
| Ge.            | 935       | 7,718     | U         | 47                         | 23        | 58        | 447       | 15        | 148       | 11            | 74        |
| Fla.           | 3,098     | 8,841     | 10,662    | 207                        | 245       | 219       | 195       | 59        | 28        | 15            | 22        |
| E.S. CENTRAL   | 961       | 19,973    | 20,269    | 522                        | 220       | 429       | 532       | 560       | 403       | 15            | 56        |
| Ky.            | 116       | 2,071     | 2,082     | 23                         | 91        | 34        | 52        | 11        | 14        | 2             | 5         |
| Tenn.          | 380       | 5,887     | 6,194     | 420                        | 72        | 340       | 444       | 547       | 381       | 9             | 30        |
| Ala.           | 263       | 8,471     | 7,286     | 50                         | 33        | 55        | 38        | 2         | 8         | 3             | 7         |
| Miss.          | 202       | 3,544     | 4,707     | 29                         | 24        | -         | -         | -         | -         | 1             | 14        |
| W.S. CENTRAL   | 2,513     | 14,781    | 20,453    | 1,332                      | 1,316     | 627       | 534       | 270       | 171       | 7             | 15        |
| Ark.           | 108       | 1,621     | 3,029     | 119                        | 26        | 22        | 11        | 2         | 4         | -             | 4         |
| La.            | 366       | 5,477     | 5,535     | 43                         | 68        | 81        | 79        | 64        | 54        | 2             | -         |
| Okla.          | 131       | 1,211     | 2,015     | 293                        | 117       | 212       | 107       | 189       | 84        | 3             | 8         |
| Tex.           | 1,908     | 6,272     | 9,874     | 877                        | 1,103     | 312       | 337       | 15        | 29        | 2             | 3         |
| MOUNTAIN       | 975       | 3,513     | 4,380     | 1,870                      | 1,976     | 389       | 280       | 217       | 208       | 101           | 47        |
| Mont.          | 8         | 38        | 38        | 34                         | 13        | 10        | 10        | 9         | 4         | 4             | 14        |
| Idaho          | 24        | 58        | 37        | 184                        | 159       | 45        | 43        | 26        | 47        | 1             | 1         |
| Wyo.           | 5         | 23        | 36        | 70                         | 10        | 9         | 11        | 87        | 80        | 3             | 2         |
| Colo.          | 339       | 1,388     | 1,527     | 240                        | 233       | 59        | 49        | 32        | 35        | 30            | 19        |
| N. Mex.        | 81        | 396       | 477       | 365                        | 509       | 147       | 93        | 28        | 32        | 3             | 1         |
| Ariz.          | 288       | 1,315     | 1,352     | 525                        | 739       | 81        | 27        | 20        | 11        | 43            | 2         |
| Utah           | 58        | 83        | 151       | 396                        | 189       | 43        | 21        | 5         | 9         | 4             | 3         |
| Nev.           | 192       | 212       | 782       | 56                         | 124       | 15        | 26        | 8         | 10        | 13            | 14        |
| PACIFIC        | 5,400     | 11,573    | 15,446    | 4,049                      | 3,837     | 1,066     | 1,187     | 363       | 412       | 71            | 35        |
| Wash.          | 463       | 1,110     | 1,354     | 316                        | 517       | 76        | 108       | 102       | 125       | 7             | 8         |
| Oreg.          | 184       | 202       | 414       | 708                        | 408       | 40        | 75        | 22        | 18        | -             | -         |
| Calif.         | 4,587     | 9,671     | 12,927    | 2,918                      | 2,779     | 876       | 976       | 229       | 265       | 59            | 25        |
| Alaska         | 45        | 342       | 405       | 17                         | 105       | 5         | 7         | 1         | -         | -             | -         |
| Hawaii         | 121       | 248       | 346       | 90                         | 28        | 9         | 21        | 9         | 4         | 5             | 2         |
| Guam           | -         | 31        | 64        | 2                          | 12        | -         | 4         | -         | -         | -             | 1         |
| P.R.           | 1,099     | 267       | 220       | 50                         | 32        | 336       | 148       | 198       | 72        | -             | -         |
| V.I.           | 19        | 4         | 11        | -                          | 2         | 2         | 4         | -         | 1         | -             | -         |
| Amer. Samoa    | -         | 8         | 15        | 5                          | 4         | -         | -         | -         | -         | -             | -         |
| C.N.M.I.       | -         | 13        | 25        | 15                         | 3         | 7         | -         | -         | -         | -             | -         |

N: Not notifiable U: Unavailable -: no reported cases C.N.M.I.: Commonwealth of Northern Mariana Islands

\*Updated monthly to the Division of HIV/AIDS Prevention, National Center for Prevention Services, last update May 25, 1995.

**TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending June 17, 1995, and June 18, 1994 (24th Week)**

| Reporting Area | Lyme Disease |           | Malaria   |           | Measles (Rubella) |      |           |      |       |      | Meningococcal Infections |           | Mumps     |           |
|----------------|--------------|-----------|-----------|-----------|-------------------|------|-----------|------|-------|------|--------------------------|-----------|-----------|-----------|
|                |              |           |           |           | Indigenous        |      | Imported* |      | Total |      |                          |           |           |           |
|                | Cum. 1995    | Cum. 1994 | Cum. 1995 | Cum. 1994 | 1995              | 1995 | 1995      | 1995 | 1995  | 1994 | Cum. 1995                | Cum. 1994 | Cum. 1995 | Cum. 1994 |
| UNITED STATES  | 1,972        | 2,546     | 426       | 433       | 11                | 195  | -         | 8    | 203   | 726  | 1,584                    | 1,527     | 434       | 700       |
| NEW ENGLAND    | 259          | 294       | 19        | 28        | -                 | 4    | -         | 4    | 22    | 80   | 80                       | 82        | 7         | 11        |
| Maine          | 3            | 2         | 1         | 1         | -                 | -    | -         | -    | 4     | 6    | 6                        | 12        | 4         | 3         |
| N.H.           | 11           | 10        | 1         | 3         | -                 | -    | -         | -    | 1     | 16   | 16                       | 6         | -         | 4         |
| Vt.            | 4            | 3         | -         | 1         | -                 | -    | -         | -    | 2     | 9    | 9                        | 2         | -         | -         |
| Mass.          | 47           | 42        | 6         | 11        | -                 | 2    | -         | -    | 2     | 6    | 25                       | 26        | 1         | -         |
| R.I.           | 53           | 32        | 2         | 4         | -                 | 2    | -         | -    | 2     | 6    | -                        | -         | -         | 1         |
| Conn.          | 141          | 205       | 9         | 6         | -                 | -    | -         | -    | 3     | 27   | 16                       | 2         | 3         | 3         |
| MID. ATLANTIC  | 1,388        | 1,690     | 94        | 89        | -                 | 1    | -         | 2    | 3     | 199  | 201                      | 153       | 63        | 65        |
| Upstate N.Y.   | 861          | 1,306     | 20        | 19        | -                 | -    | -         | -    | 15    | 87   | 87                       | 47        | 16        | 18        |
| N.Y. City      | 29           | 2         | 40        | 22        | -                 | 1    | -         | 2    | 3     | 12   | 19                       | 21        | 5         | -         |
| N.J.           | 133          | 210       | 23        | 16        | -                 | -    | -         | -    | 165   | 57   | 57                       | 36        | 5         | 11        |
| Pa.            | 365          | 142       | 11        | 12        | -                 | -    | -         | -    | 7     | 58   | 49                       | 37        | 38        | 38        |
| E.N. CENTRAL   | 27           | 198       | 50        | 48        | -                 | 6    | -         | 1    | 7     | 91   | 214                      | 210       | 71        | 126       |
| Ohio           | 20           | 12        | 3         | 7         | -                 | 1    | -         | -    | 1     | 15   | 69                       | 60        | 22        | 31        |
| Ind.           | 3            | 8         | 4         | 9         | -                 | -    | -         | -    | -     | 1    | 32                       | 24        | 1         | 6         |
| Ill.           | 3            | 9         | 29        | 19        | -                 | -    | -         | -    | -     | 54   | 63                       | 78        | 22        | 55        |
| Mich.          | 1            | 1         | 9         | 11        | -                 | 3    | -         | 1    | 4     | 18   | 41                       | 27        | 26        | 29        |
| Wis.           | -            | 168       | 5         | 2         | -                 | 2    | -         | -    | 2     | 3    | 9                        | 23        | -         | 5         |
| W.N. CENTRAL   | 27           | 35        | 9         | 22        | -                 | 1    | -         | -    | 1     | 161  | 93                       | 103       | 28        | 38        |
| Minn.          | -            | -         | 3         | 5         | -                 | -    | -         | -    | -     | -    | 16                       | 9         | 2         | 3         |
| Iowa           | 1            | 1         | 1         | 4         | -                 | -    | -         | -    | -     | -    | 16                       | 13        | 8         | 10        |
| Mo.            | 10           | 29        | 3         | 9         | -                 | 1    | -         | -    | 1     | 159  | 35                       | 49        | 14        | 22        |
| N. Dak.        | -            | -         | -         | 1         | -                 | -    | -         | -    | -     | -    | 1                        | 1         | -         | 2         |
| S. Dak.        | -            | -         | -         | -         | -                 | -    | -         | -    | -     | -    | 4                        | 6         | -         | -         |
| Nebr.          | 1            | 2         | 2         | 2         | -                 | -    | -         | -    | -     | 1    | 9                        | 8         | 4         | 1         |
| Kans.          | 15           | 3         | -         | 1         | -                 | -    | -         | -    | -     | 1    | 12                       | 17        | -         | -         |
| S. ATLANTIC    | 182          | 241       | 93        | 89        | 2                 | 5    | -         | -    | 5     | 11   | 274                      | 225       | 45        | 104       |
| Dal.           | 7            | 30        | 1         | 3         | -                 | -    | -         | -    | -     | -    | 3                        | 2         | -         | -         |
| Md.            | 124          | 80        | 23        | 39        | -                 | -    | -         | -    | -     | 2    | 18                       | 16        | -         | 26        |
| D.C.           | -            | 2         | 9         | 8         | -                 | -    | -         | -    | -     | -    | 1                        | 2         | -         | 1         |
| Va.            | 13           | 22        | 16        | 9         | -                 | -    | -         | -    | -     | 2    | 33                       | 36        | 13        | 24        |
| W. Va.         | 12           | 7         | 1         | -         | -                 | -    | -         | -    | -     | -    | 5                        | 9         | -         | 3         |
| N.C.           | 14           | 33        | 7         | 2         | -                 | -    | -         | -    | -     | -    | 45                       | 38        | 16        | 24        |
| S.C.           | 5            | 3         | -         | 2         | -                 | -    | -         | -    | -     | -    | 36                       | 11        | 7         | 6         |
| Ge.            | 5            | 58        | 11        | 14        | 2                 | 2    | -         | -    | 2     | 2    | 59                       | 53        | -         | 7         |
| Fla.           | 2            | 5         | 25        | 12        | -                 | 3    | -         | -    | 3     | 5    | 74                       | 56        | 9         | 14        |
| E.S. CENTRAL   | 11           | 18        | 8         | 13        | -                 | -    | -         | -    | -     | 28   | 95                       | 123       | 15        | 13        |
| Ky.            | 1            | 12        | -         | 4         | -                 | -    | -         | -    | -     | -    | 29                       | 25        | -         | -         |
| Tenn.          | 7            | 5         | 3         | 6         | -                 | -    | -         | -    | -     | 28   | 26                       | 24        | 4         | 5         |
| Ala.           | 1            | 1         | 5         | 2         | -                 | -    | -         | -    | -     | -    | 25                       | 48        | 4         | 1         |
| Miss.          | 2            | -         | -         | 1         | -                 | -    | -         | -    | -     | -    | 15                       | 26        | 7         | 7         |
| W.S. CENTRAL   | 43           | 37        | 9         | 14        | 4                 | 17   | -         | -    | 17    | 12   | 192                      | 183       | 29        | 153       |
| Ark.           | 1            | 2         | 2         | -         | -                 | 2    | -         | -    | 2     | 1    | 19                       | 29        | 2         | 4         |
| La.            | 1            | -         | 1         | 2         | 4                 | 15   | -         | -    | 15    | 1    | 27                       | 23        | 7         | 15        |
| Okla.          | 18           | 19        | -         | 2         | -                 | -    | -         | -    | -     | -    | 21                       | 18        | -         | 22        |
| Tex.           | 23           | 16        | 6         | 10        | -                 | -    | -         | -    | -     | 10   | 125                      | 113       | 20        | 112       |
| MOUNTAIN       | 3            | 1         | 27        | 19        | 4                 | 50   | -         | 1    | 51    | 154  | 125                      | 110       | 29        | 46        |
| Mont.          | -            | -         | 2         | -         | -                 | -    | -         | -    | -     | -    | 2                        | 2         | 1         | -         |
| Idaho          | -            | 1         | 1         | 2         | 1                 | 1    | -         | -    | 1     | -    | 5                        | 14        | 3         | 5         |
| Wyo.           | 1            | -         | -         | -         | -                 | -    | -         | -    | -     | -    | 5                        | 5         | -         | 1         |
| Colo.          | 1            | -         | 15        | 8         | 1                 | 8    | -         | -    | 8     | 19   | 29                       | 17        | 1         | 2         |
| N. Mex.        | -            | -         | 3         | 3         | -                 | 28   | -         | -    | 28    | -    | 28                       | 11        | N         | N         |
| Ariz.          | -            | -         | 3         | 1         | 2                 | 12   | -         | -    | 12    | -    | 42                       | 40        | 7         | 25        |
| Utah           | -            | -         | 2         | 4         | -                 | -    | -         | 1    | 1     | 128  | 7                        | 15        | 10        | 7         |
| Nev.           | 1            | -         | 1         | 1         | U                 | 1    | U         | -    | 1     | 9    | 7                        | 6         | 6         | 6         |
| PACIFIC        | 32           | 32        | 117       | 133       | 1                 | 111  | -         | 4    | 115   | 46   | 320                      | 358       | 147       | 144       |
| Wash.          | 2            | -         | 11        | 14        | -                 | 13   | -         | 2    | 15    | -    | 54                       | 54        | 10        | 8         |
| Oreg.          | 2            | 2         | 4         | 10        | -                 | 1    | -         | -    | 1     | -    | 53                       | 78        | N         | N         |
| Calif.         | 28           | 30        | 94        | 101       | 1                 | 97   | -         | 1    | 98    | 46   | 205                      | 220       | 124       | 128       |
| Alaska         | -            | -         | 1         | -         | -                 | -    | -         | -    | -     | -    | 6                        | 2         | 9         | 2         |
| Hawaii         | -            | -         | 7         | 8         | -                 | -    | -         | 1    | 1     | 2    | 2                        | 4         | 4         | 8         |
| Guam           | -            | -         | -         | -         | U                 | -    | U         | -    | -     | 227  | 2                        | -         | 3         | 4         |
| P.R.           | -            | -         | 1         | 2         | -                 | 9    | -         | -    | 9     | 11   | 12                       | 5         | -         | 2         |
| V.I.           | -            | -         | -         | -         | U                 | -    | U         | -    | -     | -    | -                        | -         | 2         | 3         |
| Armer. Samoa   | -            | -         | -         | -         | U                 | -    | U         | -    | -     | -    | -                        | -         | -         | 1         |
| C.N.M.I.       | -            | -         | 1         | 1         | -                 | -    | -         | -    | -     | 29   | -                        | -         | -         | 2         |

\*For imported measles, cases include only those resulting from importation from other countries.

N: Not notifiable U: Unavailable - : no reported cases



TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending June 17, 1995, and June 18, 1994 (24th Week)

| Reporting Area | Pertussis |              |              | Rubella |              |              | Syphilis<br>(Primary &<br>Secondary) |              | Tuberculosis |              | Rabies,<br>Animal |              |
|----------------|-----------|--------------|--------------|---------|--------------|--------------|--------------------------------------|--------------|--------------|--------------|-------------------|--------------|
|                | 1995      | Cum.<br>1995 | Cum.<br>1994 | 1995    | Cum.<br>1995 | Cum.<br>1994 | Cum.<br>1995                         | Cum.<br>1994 | Cum.<br>1995 | Cum.<br>1994 | Cum.<br>1995      | Cum.<br>1994 |
| UNITED STATES  | 36        | 1,326        | 1,645        | 10      | 62           | 170          | 6,905                                | 9,999        | 8,083        | 8,907        | 2,926             | 3,289        |
| NEW ENGLAND    | 4         | 164          | 175          | 7       | 14           | 118          | 87                                   | 103          | 164          | 183          | 772               | 856          |
| Maine          | -         | 18           | 2            | -       | 1            | -            | 2                                    | 4            | -            | -            | -                 | -            |
| N.H.           | 1         | 14           | 39           | -       | 1            | -            | 1                                    | 1            | 5            | 6            | 88                | 95           |
| Vt.            | -         | 3            | 27           | -       | -            | -            | -                                    | -            | 2            | 3            | 106               | 75           |
| Mass.          | -         | 119          | 89           | -       | 2            | 117          | 34                                   | 42           | 91           | 89           | 270               | 324          |
| R.I.           | -         | -            | 3            | -       | -            | 1            | 1                                    | 9            | 18           | 18           | 131               | 5            |
| Conn.          | 3         | 10           | 15           | 7       | 10           | -            | 49                                   | 47           | 48           | 67           | 177               | 357          |
| MID. ATLANTIC  | 4         | 118          | 297          | -       | 5            | 6            | 421                                  | 614          | 1,720        | 1,839        | 674               | 795          |
| Upstate N.Y.   | 1         | 62           | 113          | -       | 3            | 5            | 24                                   | 80           | 180          | 240          | 261               | 563          |
| N.Y. City      | -         | 22           | 62           | -       | 2            | -            | 217                                  | 288          | 925          | 1,127        | -                 | -            |
| N.J.           | -         | 2            | 9            | -       | -            | 1            | 81                                   | 102          | 315          | 321          | 170               | 142          |
| Pa.            | 3         | 32           | 113          | -       | -            | -            | 99                                   | 144          | 300          | 151          | 243               | 90           |
| E.N. CENTRAL   | 6         | 132          | 252          | -       | -            | 6            | 1,199                                | 1,395        | 823          | 901          | 19                | 19           |
| Ohio           | 1         | 45           | 60           | -       | -            | -            | 423                                  | 491          | 137          | 131          | 2                 | -            |
| Ind.           | 5         | 13           | 35           | -       | -            | -            | 103                                  | 112          | 21           | 81           | 2                 | 3            |
| Ill.           | -         | 22           | 52           | -       | -            | 1            | 463                                  | 500          | 467          | 444          | 3                 | 4            |
| Mich.          | -         | 40           | 23           | -       | -            | 5            | 130                                  | 144          | 171          | 217          | 11                | 6            |
| Wis.           | -         | 12           | 73           | -       | -            | -            | 80                                   | 148          | 27           | 26           | 1                 | 6            |
| W.N. CENTRAL   | -         | 63           | 73           | -       | -            | 2            | 380                                  | 587          | 265          | 240          | 142               | 93           |
| Minn.          | -         | 28           | 39           | -       | -            | -            | 22                                   | 23           | 58           | 43           | 6                 | 8            |
| Iowa           | -         | 2            | 6            | -       | -            | -            | 28                                   | 23           | 35           | 17           | 54                | 39           |
| Mo.            | -         | 5            | 15           | -       | -            | 2            | 301                                  | 501          | 103          | 116          | 17                | 10           |
| N. Dak.        | -         | 6            | 3            | -       | -            | -            | -                                    | 1            | 1            | 4            | 17                | 5            |
| S. Dak.        | -         | 7            | -            | -       | -            | -            | -                                    | 1            | 10           | 14           | 22                | 14           |
| Nebr.          | -         | 4            | 4            | -       | -            | -            | -                                    | 8            | 10           | 8            | -                 | -            |
| Kans.          | -         | 11           | 6            | -       | -            | -            | 9                                    | 30           | 48           | 38           | 26                | 17           |
| S. ATLANTIC    | 7         | 117          | 106          | -       | 15           | 10           | 1,067                                | 2,533        | 1,483        | 1,185        | 988               | 872          |
| Del.           | -         | 5            | -            | -       | -            | -            | 7                                    | 13           | 12           | 17           | 33                | 21           |
| Md.            | 2         | 15           | 53           | -       | -            | -            | 36                                   | 104          | 204          | 149          | 208               | 286          |
| D.C.           | -         | 2            | 3            | -       | -            | -            | 60                                   | 120          | 49           | 51           | 9                 | 2            |
| Va.            | -         | 8            | 15           | -       | -            | -            | 305                                  | 347          | 105          | 172          | 191               | 180          |
| W. Va.         | -         | -            | 2            | -       | -            | -            | 1                                    | 8            | 45           | 40           | 43                | 36           |
| N.C.           | -         | 50           | 44           | -       | -            | -            | 535                                  | 820          | 175          | 216          | 198               | 87           |
| S.C.           | 1         | 12           | 10           | -       | -            | -            | 303                                  | 325          | 145          | 193          | 63                | 62           |
| Ga.            | -         | 1            | 13           | -       | -            | -            | 247                                  | 403          | 271          | 347          | 139               | 177          |
| Fla.           | 4         | 24           | 26           | -       | 15           | 10           | 173                                  | 393          | 477          | -            | 104               | 1            |
| E.S. CENTRAL   | 2         | 29           | 91           | -       | -            | -            | 1,911                                | 1,744        | 459          | 658          | 80                | 96           |
| Ky.            | -         | -            | 53           | -       | -            | -            | 100                                  | 106          | 53           | 149          | 9                 | 6            |
| Tenn.          | -         | 4            | 16           | -       | -            | -            | 391                                  | 465          | 162          | 199          | 11                | 34           |
| Ala.           | 2         | 25           | 14           | -       | -            | -            | 293                                  | 330          | 179          | 196          | 60                | 56           |
| Miss.          | -         | -            | 8            | -       | -            | -            | 1,127                                | 843          | 65           | 114          | -                 | -            |
| W.S. CENTRAL   | 3         | 65           | 51           | -       | 2            | 7            | 954                                  | 2,300        | 1,025        | 1,104        | 54                | 360          |
| Ark.           | -         | -            | 10           | -       | -            | -            | 157                                  | 238          | 75           | 101          | 11                | 14           |
| La.            | -         | 4            | 5            | -       | -            | -            | 499                                  | 846          | -            | 7            | 23                | 41           |
| Okla.          | 1         | 14           | 20           | -       | -            | 4            | 35                                   | 76           | 96           | 111          | 20                | 19           |
| Tex.           | 2         | 47           | 16           | -       | 2            | 3            | 263                                  | 1,138        | 854          | 885          | -                 | 286          |
| MOUNTAIN       | 3         | 443          | 199          | 3       | 7            | 3            | 103                                  | 146          | 256          | 241          | 61                | 59           |
| Mont.          | -         | 3            | 3            | -       | -            | -            | 3                                    | 1            | 3            | 9            | 22                | 8            |
| Idaho          | -         | 74           | 23           | 1       | 1            | -            | -                                    | 1            | 6            | 6            | -                 | -            |
| Wyo.           | -         | 1            | -            | -       | -            | -            | 2                                    | -            | 1            | 2            | 16                | 11           |
| Colo.          | 1         | 13           | 106          | -       | -            | -            | 65                                   | 76           | 4            | 20           | -                 | 2            |
| N. Mex.        | 1         | 32           | 9            | -       | -            | -            | 5                                    | 6            | 40           | 37           | 3                 | 2            |
| Ariz.          | 1         | 305          | 44           | 2       | 5            | -            | 18                                   | 34           | 143          | 95           | 18                | 34           |
| Utah           | -         | 10           | 12           | -       | 1            | 2            | 3                                    | 7            | 10           | 16           | 1                 | -            |
| Nev.           | U         | 5            | 2            | U       | -            | -            | 7                                    | 23           | 49           | 56           | 1                 | 2            |
| PACIFIC        | 7         | 195          | 341          | -       | 19           | 18           | 203                                  | 475          | 1,888        | 2,556        | 138               | 139          |
| Wash.          | 3         | 37           | 44           | -       | 1            | -            | 7                                    | 21           | 121          | 113          | -                 | -            |
| Oreg.          | 1         | 8            | 42           | -       | 1            | -            | 6                                    | 17           | 23           | 63           | -                 | -            |
| Calif.         | 2         | 132          | 249          | -       | 15           | 16           | 189                                  | 434          | 1,634        | 2,228        | 132               | 108          |
| Alaska         | -         | -            | -            | -       | -            | -            | 1                                    | 2            | 36           | 33           | 4                 | 31           |
| Hawaii         | 1         | 18           | 6            | -       | 2            | 2            | -                                    | 1            | 74           | 119          | -                 | -            |
| Guam           | U         | -            | 2            | U       | -            | 1            | 1                                    | 3            | 4            | 30           | -                 | -            |
| P.R.           | -         | 6            | 2            | -       | -            | -            | 138                                  | 155          | 56           | 82           | 19                | 43           |
| V.I.           | U         | -            | -            | -       | -            | -            | 1                                    | 22           | -            | -            | -                 | -            |
| Amer. Samoa    | U         | -            | 1            | U       | -            | -            | -                                    | 1            | 3            | 3            | -                 | -            |
| C.N.M.I.       | -         | -            | -            | -       | -            | -            | 3                                    | -            | 13           | 16           | -                 | -            |

U: Unavailable - : no reported cases

TABLE III. Deaths in 121 U.S. cities,\* week ending  
June 17, 1995 (24th Week)

| Reporting Area       | All Causes, By Age (Years) |       |       |       |      |    | P&I <sup>†</sup><br>Total | Reporting Area        | All Causes, By Age (Years) |       |       |       |      |     | P&I <sup>†</sup><br>Total |
|----------------------|----------------------------|-------|-------|-------|------|----|---------------------------|-----------------------|----------------------------|-------|-------|-------|------|-----|---------------------------|
|                      | All<br>Ages                | ≥65   | 45-64 | 25-44 | 1-24 | <1 |                           |                       | All<br>Ages                | ≥65   | 45-64 | 25-44 | 1-24 | <1  |                           |
| <b>NEW ENGLAND</b>   | 494                        | 327   | 82    | 50    | 9    | 18 | 26                        | <b>S. ATLANTIC</b>    | 1,359                      | 826   | 262   | 181   | 55   | 34  | 71                        |
| Boston, Mass.        | 163                        | 87    | 26    | 27    | 5    | 1  | 5                         | Atlanta, Ga.          | 159                        | 92    | 31    | 28    | 7    | 3   | 4                         |
| Bridgeport, Conn.    | 31                         | 18    | 6     | 1     | 3    | 1  | 1                         | Baltimore, Md.        | 272                        | 161   | 47    | 48    | 9    | 7   | 20                        |
| Cambridge, Mass.     | 20                         | 12    | 6     | 2     | -    | -  | -                         | Charlotte, N.C.       | 117                        | 64    | 32    | 14    | 6    | 1   | 11                        |
| Fall River, Mass.    | 25                         | 20    | 3     | 2     | -    | -  | 1                         | Jacksonville, Fla.    | 129                        | 83    | 23    | 13    | 5    | 5   | 3                         |
| Hartford, Conn.      | U                          | U     | U     | U     | U    | U  | U                         | Miami, Fla.           | 99                         | 52    | 23    | 15    | 7    | 2   | 1                         |
| Lowell, Mass.        | 24                         | 16    | 6     | 2     | -    | -  | 1                         | Norfolk, Va.          | 88                         | 46    | 8     | 7     | 4    | 3   | 5                         |
| Lynn, Mass.          | 17                         | 12    | 3     | 2     | -    | -  | -                         | Richmond, Va.         | 87                         | 59    | 14    | 11    | 1    | 2   | 6                         |
| New Bedford, Mass.   | 25                         | 19    | 4     | 2     | -    | -  | -                         | Saltannah, Ga.        | 43                         | 26    | 9     | 7     | 3    | 1   | 5                         |
| New Haven, Conn.     | 44                         | 29    | 7     | 3     | -    | -  | 5                         | St. Petersburg, Fla.  | 53                         | 32    | 11    | 6     | 3    | 1   | 3                         |
| Providence, R.I.     | 48                         | 36    | 10    | 1     | -    | -  | 1                         | Tampa, Fla.           | 178                        | 125   | 32    | 9     | 9    | 2   | 9                         |
| Somerville, Mass.    | 2                          | 1     | 1     | -     | -    | -  | 1                         | Washington, D.C.      | 144                        | 78    | 31    | 24    | 4    | 7   | 4                         |
| Springfield, Mass.   | 18                         | 12    | 4     | -     | -    | -  | 1                         | Wilmington, Del.      | 10                         | 8     | 1     | 1     | -    | -   | -                         |
| Waterbury, Conn.     | 33                         | 26    | 5     | 2     | -    | -  | 3                         | <b>E.S. CENTRAL</b>   | 514                        | 522   | 169   | 66    | 31   | 26  | 61                        |
| Worcester, Mass.     | 44                         | 29    | 9     | 6     | -    | -  | 7                         | Birmingham, Ala.      | 120                        | 71    | 28    | 10    | 3    | 8   | -                         |
| <b>MID. ATLANTIC</b> | 2,438                      | 1,505 | 488   | 278   | 93   | 76 | 94                        | Chattanooga, Tenn.    | 65                         | 42    | 15    | 3     | 5    | -   | 5                         |
| Albany, N.Y.         | 37                         | 21    | 11    | 4     | 1    | -  | 5                         | Knoxville, Tenn.      | 78                         | 52    | 18    | 6     | 1    | 1   | 5                         |
| Allentown, Pa.       | 22                         | 18    | 1     | 2     | 1    | -  | -                         | Lexington, Ky.        | 56                         | 34    | 15    | 3     | 3    | 1   | 7                         |
| Buffalo, N.Y.        | 95                         | 69    | 13    | 10    | 2    | 1  | -                         | Memphis, Tenn.        | 243                        | 163   | 50    | 18    | 10   | 2   | 20                        |
| Camden, N.J.         | 34                         | 18    | 6     | 4     | 3    | 1  | 1                         | Mobile, Ala.          | 89                         | 49    | 4     | 6     | 2    | 8   | 3                         |
| Elizabeth, N.J.      | 20                         | 12    | 7     | 1     | -    | -  | -                         | Montgomery, Ala.      | 42                         | 31    | 5     | 3     | 1    | 2   | 3                         |
| Erie, Pa.            | 54                         | 41    | 11    | -     | -    | -  | 2                         | Nashville, Tenn.      | 141                        | 80    | 34    | 17    | 6    | 4   | 18                        |
| Jersey City, N.J.    | 47                         | 28    | 10    | 5     | 1    | 3  | -                         | <b>N.W. CENTRAL</b>   | 1,515                      | 963   | 308   | 158   | 54   | 32  | 77                        |
| New York City, N.Y.  | 1,318                      | 791   | 278   | 180   | 38   | 31 | 35                        | Austin, Tex.          | 63                         | 38    | 9     | 10    | 4    | 2   | 2                         |
| Newark, N.J.         | 70                         | 23    | 25    | 16    | 4    | 2  | 1                         | Baton Rouge, La.      | 77                         | 46    | 20    | 8     | 1    | 2   | -                         |
| Peterborough, N.J.   | 32                         | 14    | 9     | 7     | -    | -  | -                         | Corpus Christi, Tex.  | 81                         | 35    | 10    | 4     | 1    | 1   | -                         |
| Philadelphia, Pa.    | 345                        | 193   | 62    | 23    | 36   | 31 | 17                        | Dallas, Tex.          | 194                        | 119   | 46    | 20    | 7    | 2   | 5                         |
| Pittsburgh, Pa.      | 66                         | 43    | 13    | 7     | 2    | 1  | 3                         | El Paso, Tex.         | 84                         | 55    | 17    | 9     | 3    | -   | 3                         |
| Reading, Pa.         | 9                          | 6     | 1     | 2     | -    | -  | 1                         | Fl. Worth, Tex.       | 96                         | 62    | 18    | 11    | 3    | 2   | 6                         |
| Rochester, N.Y.      | 116                        | 95    | 11    | 6     | 3    | 1  | 12                        | Houston, Tex.         | 354                        | 223   | 73    | 36    | 15   | 7   | 27                        |
| Schenectady, N.Y.    | 17                         | 12    | 5     | -     | -    | -  | -                         | Little Rock, Ark.     | 77                         | 41    | 18    | 11    | 3    | 4   | 9                         |
| Scranton, Pa.        | 25                         | 24    | 1     | -     | -    | -  | -                         | New Orleans, La.      | 140                        | 83    | 27    | 15    | 11   | 4   | -                         |
| Syracuse, N.Y.       | 75                         | 61    | 9     | 5     | -    | -  | 10                        | San Antonio, Tex.     | 209                        | 141   | 38    | 23    | 2    | 5   | 10                        |
| Trenton, N.J.        | 21                         | 9     | 7     | 3     | 1    | 1  | 3                         | Shreveport, La.       | 50                         | 30    | 13    | 4     | 3    | -   | 5                         |
| Utica, N.Y.          | 15                         | 13    | -     | 2     | -    | -  | -                         | Tulsa, Okla.          | 120                        | 90    | 19    | 7     | 1    | 3   | 10                        |
| Yonkers, N.Y.        | 20                         | 14    | 4     | 1     | 1    | -  | 2                         | <b>MOUNTAIN</b>       | 862                        | 572   | 171   | 73    | 30   | 16  | 57                        |
| <b>E.N. CENTRAL</b>  | 2,110                      | 1,396 | 390   | 194   | 67   | 63 | 129                       | Albuquerque, N.M.     | 100                        | 63    | 22    | 4     | 6    | 5   | 3                         |
| Akron, Ohio          | 41                         | 30    | 7     | 4     | -    | -  | -                         | Colo. Springs, Colo.  | 43                         | 30    | 9     | 3     | 1    | -   | 5                         |
| Canton, Ohio         | 37                         | 23    | 6     | 3     | 2    | 3  | 4                         | Denver, Colo.         | 122                        | 91    | 18    | 8     | 2    | 3   | 7                         |
| Chicago, Ill.        | 396                        | 244   | 75    | 50    | 15   | 12 | 33                        | Las Vegas, Nev.       | 171                        | 107   | 44    | 15    | 4    | 1   | 7                         |
| Cincinnati, Ohio     | 153                        | 106   | 25    | 12    | 5    | 5  | 13                        | Ogden, Utah           | 25                         | 20    | 3     | 1     | 1    | -   | 5                         |
| Cleveland, Ohio      | 146                        | 76    | 42    | 18    | 3    | 7  | 3                         | Phoenix, Ariz.        | 163                        | 104   | 31    | 14    | 11   | 3   | 14                        |
| Columbus, Ohio       | 194                        | 140   | 35    | 9     | 5    | 5  | 9                         | Pueblo, Colo.         | 26                         | 19    | 6     | 1     | -    | -   | -                         |
| Dayton, Ohio         | 128                        | 89    | 24    | 13    | 3    | -  | 10                        | Salt Lake City, Utah  | 97                         | 52    | 19    | 20    | 4    | 2   | 6                         |
| Detroit, Mich.       | 206                        | 111   | 62    | 33    | 4    | 6  | 3                         | Tucson, Ariz.         | 115                        | 86    | 19    | 7     | 1    | 2   | 10                        |
| Evansville, Ind.     | 37                         | 25    | 6     | 2     | 2    | -  | 2                         | <b>PACIFIC</b>        | 1,891                      | 1,283 | 322   | 193   | 50   | 47  | 163                       |
| Fort Wayne, Ind.     | 64                         | 42    | 11    | 4     | 6    | 1  | 3                         | Berkeley, Calif.      | 9                          | 6     | 2     | 1     | -    | -   | -                         |
| Gary, Ind.           | 18                         | 8     | 3     | 3     | 4    | -  | -                         | Fresno, Calif.        | 86                         | 59    | 17    | 3     | 3    | 6   | 7                         |
| Grand Rapids, Mich.  | 50                         | 36    | 8     | 3     | -    | 4  | 3                         | Glendale, Calif.      | 24                         | 17    | 5     | 2     | -    | -   | 2                         |
| Indianapolis, Ind.   | 186                        | 125   | 31    | 15    | 5    | 10 | 14                        | Honolulu, Hawaii      | 67                         | 48    | 12    | 7     | 2    | 4   | 11                        |
| Madison, Wis.        | 46                         | 30    | 10    | 2     | 2    | 2  | 2                         | Long Beach, Calif.    | 67                         | 46    | 9     | 5     | 2    | 3   | 9                         |
| Milwaukee, Wis.      | 134                        | 99    | 24    | 9     | 1    | 1  | 8                         | Los Angeles, Calif.   | 528                        | 339   | 100   | 68    | 15   | 5   | 23                        |
| Peoria, Ill.         | 35                         | 30    | 4     | 1     | -    | -  | 6                         | Pasadena, Calif.      | 40                         | 28    | 6     | 2     | -    | 4   | 5                         |
| Rockford, Ill.       | 38                         | 26    | 4     | 5     | 1    | 2  | 4                         | Portland, Ore.        | 133                        | 89    | 22    | 12    | 6    | 4   | 12                        |
| South Bend, Ind.     | 42                         | 34    | 4     | 1     | 2    | 1  | 3                         | Sacramento, Calif.    | 156                        | 104   | 31    | 12    | 5    | 4   | 14                        |
| Toledo, Ohio         | 103                        | 75    | 17    | 6     | 4    | 1  | 5                         | San Diego, Calif.     | 136                        | 94    | 19    | 19    | 1    | 2   | 14                        |
| Youngstown, Ohio     | 56                         | 46    | 5     | 1     | 3    | 1  | 6                         | San Francisco, Calif. | 137                        | 83    | 18    | 16    | 2    | 3   | 15                        |
| <b>W.N. CENTRAL</b>  | 725                        | 527   | 104   | 41    | 24   | 15 | 45                        | San Jose, Calif.      | 178                        | 123   | 29    | 10    | 7    | 7   | 20                        |
| Des Moines, Iowa     | 79                         | 61    | 10    | 6     | 1    | 1  | 6                         | Santa Cruz, Calif.    | 25                         | 19    | 2     | 2     | 1    | 1   | 6                         |
| Duluth, Minn.        | 39                         | 31    | 5     | 1     | 1    | 1  | 4                         | Seattle, Wash.        | 144                        | 98    | 22    | 16    | 4    | 4   | 7                         |
| Kansas City, Kans.   | U                          | U     | U     | U     | U    | U  | U                         | Spokane, Wash.        | 49                         | 37    | 6     | 5     | 1    | -   | 9                         |
| Kansas City, Mo.     | 101                        | 62    | 14    | 5     | 3    | 3  | 5                         | Tacoma, Wash.         | 107                        | 71    | 22    | 13    | 1    | -   | 9                         |
| Lincoln, Nebr.       | 45                         | 35    | 8     | 1     | 1    | -  | 4                         | <b>TOTAL</b>          | 12,208 <sup>‡</sup>        | 7,901 | 2,304 | 1,234 | 413  | 325 | 723                       |
| Minneapolis, Minn.   | 205                        | 152   | 31    | 11    | 6    | 5  | 11                        |                       |                            |       |       |       |      |     |                           |
| Omaha, Nebr.         | 89                         | 70    | 8     | 6     | 3    | 2  | 6                         |                       |                            |       |       |       |      |     |                           |
| St. Louis, Mo.       | 116                        | 83    | 16    | 8     | 6    | 3  | 5                         |                       |                            |       |       |       |      |     |                           |
| St. Paul, Minn.      | 51                         | 33    | 12    | 3     | 3    | 4  | 4                         |                       |                            |       |       |       |      |     |                           |
| Wichita, Kans.       | U                          | U     | U     | U     | U    | U  | U                         |                       |                            |       |       |       |      |     |                           |

\*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

<sup>†</sup>Pneumonia and influenza.

<sup>‡</sup>Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

<sup>§</sup>Total includes unknown ages.

U: Unavailable -0: no reported cases

*Dietary Goals — Continued*

Eater" to reduce the proportion of total food-energy intake from fat. In addition to interventions targeted toward adults, Kansas LEAN emphasizes the education of children about appropriate nutrition. Long-term nutritional habits can be improved by introducing new foods to children, lowering the fat content of school lunches, and educating children (10). For example, a "Check Your Six" program targeted toward fifth-grade and preschool-aged children has been initiated to increase the quantity of grain products consumed.

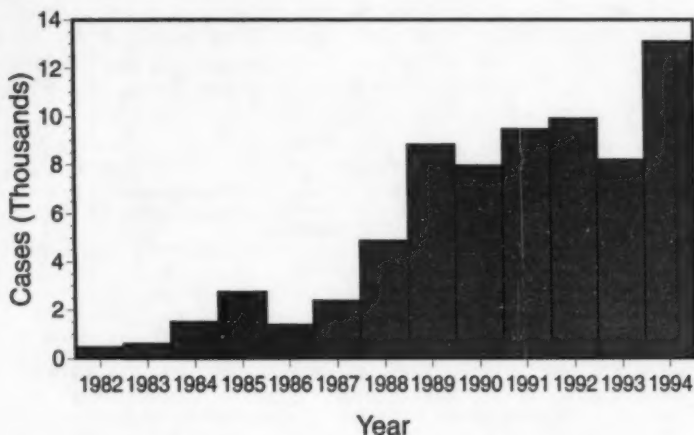
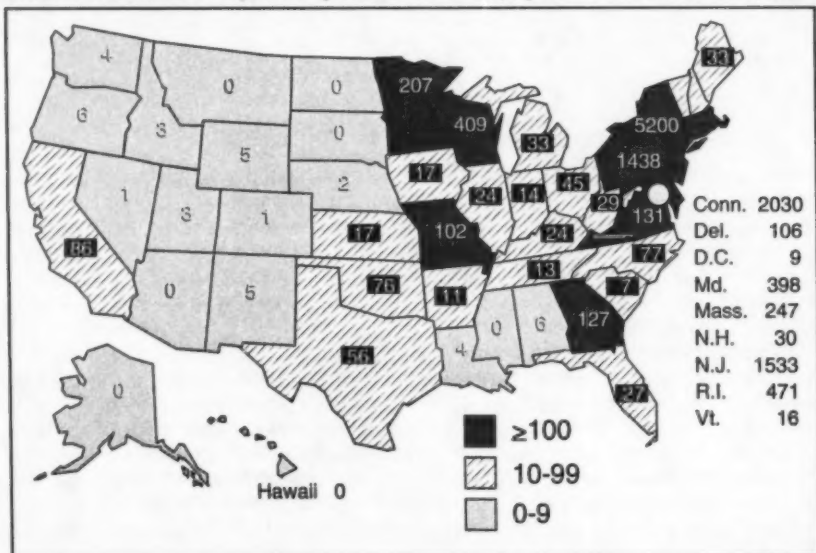
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### **Lyme Disease — United States, 1994**

For surveillance purposes, Lyme disease (LD) is defined as the presence of an erythema migrans rash  $\geq 5$  cm in diameter or laboratory confirmation of infection with *Borrelia burgdorferi* and at least one objective sign of musculoskeletal, neurologic, or cardiovascular disease (1). In 1982, CDC initiated surveillance for LD, and in 1990, the Council of State and Territorial Epidemiologists adopted a resolution that designated LD a nationally notifiable disease. This report summarizes surveillance data for LD in the United States during 1994.

In 1994, 13,083 cases of LD were reported to CDC by 44 state health departments, 4826 (58%) more than the 8257 cases reported in 1993 (Figure 1). As in previous years, most cases were reported from the northeastern and north-central regions (Figure 2). The overall incidence of reported LD was 5.2 per 100,000 population. Eight states reported incidences of more than 5.2 per 100,000 (Connecticut, 62.2; Rhode Island, 47.2; New York, 29.2; New Jersey, 19.6; Delaware, 15.5; Pennsylvania, 11.9; Wisconsin, 8.4; and Maryland, 8.3); these states accounted for 11,476 (88%) of nationally reported cases. Six states (Alaska, Arizona, Hawaii, Mississippi, Montana, and North Dakota) reported no cases. Reported incidences were  $\geq 100$  per 100,000 in 15 counties in Con-

*Lyme Disease — Continued***FIGURE 1. Number of reported Lyme disease cases, by year — United States, 1982-1994****FIGURE 2. Number of reported Lyme disease cases, by state — United States, 1994**

*Lyme Disease — Continued*

necticut, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, and Wisconsin; the incidence was highest in Nantucket County, Massachusetts (1197.6).

Six northeastern states accounted for 95% of the increase in reported cases for 1994: Maryland, New Jersey, New York, Rhode Island, Connecticut, and Pennsylvania. Reported cases increased by 218 cases (121%) in Maryland, 747 cases (95%) in New Jersey, 2382 cases (85%) in New York, 199 cases (73%) in Rhode Island, 680 cases (50%) in Connecticut, and 353 cases (33%) in Pennsylvania. Reported cases remained stable in the states with endemic disease in the north-central region (Minnesota and Wisconsin) and decreased in California (36%).

Males and females were nearly equally affected in all age groups except those aged 10–19 years (males: 55%) and those aged 30–39 years (females: 56%).

*Reported by:* State health departments. *Bacterial Zoonoses Br, Div of Vector-Borne Infectious Diseases, National Center for Infectious Diseases, CDC.*

**Editorial Note:** LD is the most commonly reported vectorborne infectious disease in the United States. Infection with *B. burgdorferi* results from exposure to nymphal and adult forms of tick vectors of the genus *Ixodes*: *I. scapularis* (black-legged tick) in the northeastern and upper north-central United States, and *I. pacificus* (western black-legged tick) in the Pacific coastal states.

Risk for exposure to *B. burgdorferi* is strongly associated with the prevalence of tick vectors and the proportion of those ticks that carry *B. burgdorferi*. The risk for exposure may be highly focal (2) and can differ substantially between adjacent states, counties, communities, and areas on the same residential property (3,4). In northeastern states with endemic disease, the infection rate of nymphal *I. scapularis* ticks with *B. burgdorferi* is commonly 20%–35%, and even modest changes in tick numbers can substantially affect the risk for exposure to infected vectors (5). In one area of Connecticut where approximately 15% of *I. scapularis* are infected with *B. burgdorferi*, changes in the annual incidence of LD have paralleled changes in *I. scapularis* densities (M. Cartter, Connecticut Department of Health and Addiction Services, K. Stafford, Connecticut Agricultural Experimental Station, personal communication, 1995). In 1994, tick surveillance in the Northeast indicated increases over previous years in vector tick density. For example, in one site in Westchester County, New York, population density of *I. scapularis* nymphs increased 400% from 0.4 nymphs per square meter in 1993 to 1.6 nymphs per square meter in 1994 (T. Daniels, Fordham University, R. Falco, Westchester County Department of Health, personal communication, 1995), and in Rhode Island, nymphal *I. scapularis* density measured at sites throughout the state increased 158% from 1993 to 1994 (T. Mather, University of Rhode Island, personal communication, 1995).

Ascertainment of LD cases based only on passive surveillance may result in under-reporting of cases (6,7). Because of this and in accordance with recommendations for control of emerging diseases (8), some states in which LD is endemic have expanded surveillance efforts. In 1994, the New York State Department of Health augmented surveillance with additional staff, intensified active case detection, and validated some cases reported in the previous year; these efforts probably accounted for some of the increase in reported cases for New York in 1994 (D. White, New York State Department of Health, personal communication, 1995). Active surveillance, with support from CDC, is conducted by health departments in Connecticut, Michigan, Minnesota, New Jersey, New York, Oregon, Rhode Island, and West Virginia.

*Lyme Disease — Continued*

The risk for infection among persons residing in or visiting areas where LD is endemic can be reduced through avoidance of known tick habitats; other preventive measures include wearing long pants and long-sleeved shirts, tucking pants into socks, applying tick repellents containing N,N-diethyl-m-toluamide ("DEET") to clothing and/or exposed skin according to manufacturer's instructions, checking thoroughly and regularly for ticks, and promptly removing any attached ticks. Acaricides containing permethrin kill ticks on contact and can provide further protection when applied to clothing, but are not approved for use on skin.

Additional information about LD is available from state and local health departments, from CDC's Voice Information System, telephone (404) 332-4555; from CDC's Bacterial Zoonoses Branch, Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases, telephone (970) 221-6453; and from the Office of Communications, National Institute of Allergy and Infectious Diseases, National Institutes of Health, telephone (301) 496-5717.

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**African Pygmy Hedgehog-Associated Salmonellosis — Washington, 1994**

During 1994, the Washington Department of Health Public Health Laboratory reported the isolation from a human of a rare *Salmonella* serotype, *Salmonella* serotype Tilene. This report summarizes the epidemiologic investigation of the case by the Seattle-King County Department of Public Health, which suggested the infection was related to exposure to African pygmy hedgehogs.

On April 9, 1994, a 10-month old girl was evaluated in a hospital emergency department in King County for an acute febrile, nonbloody diarrheal illness; the fever resolved without treatment but the diarrhea persisted for 3 weeks. On April 28, she was evaluated in an outpatient clinic; a stool sample yielded *Salmonella* Tilene. The infant had been breast-fed and received supplemental solid foods; she did not attend a child care center. Her parents were asymptomatic, and cultures of stool samples from both were negative. The family owned a dog and a breeding herd of 80 apparently healthy African pygmy hedgehogs; a stool sample from one of three hedgehogs



*Salmonellosis — Continued*

cultured yielded *Salmonella* Tilene. Although the infant had not had direct contact with the hedgehogs, the hedgehogs were handled frequently by one member of the family. The infant's illness resolved after treatment for an upper respiratory infection with trimethoprim-sulfamethoxazole.

Reported by: S Lipsky, Epidemiology Unit, T Tanino, Laboratory Section, Seattle-King County Dept of Public Health; JH Lewis, Public Health Laboratories, Washington Dept of Health. Food-borne and Diarrheal Diseases Br, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, CDC.

**Editorial Note:** *Salmonella* Tilene is an uncommon cause of human illness; the organism was first isolated in 1960 from a child in Senegal (1). Although the patient in Washington had the first documented human infection with this serotype in the United States,\* since January 1991 the U.S. Department of Agriculture (USDA) has identified two isolates from animals at the National Veterinary Services Laboratory—both were from African pygmy hedgehogs (K. Ferris, USDA, personal communication, April 1995). Although the African pygmy hedgehog is an unusual pet, ownership of these animals is reportedly increasing in the United States (2). African pygmy hedgehogs are bred domestically in the United States; importation from Africa has been prohibited since 1991 because they can carry foot-and-mouth disease, a disease of livestock that is not found in the United States (R. Perkins, USDA, personal communication, May 1995).

*Salmonella* spp. are found worldwide in domestic and wild animals, including mammals, reptiles, and birds. Although ingestion of contaminated food is the most important source of salmonellosis in humans (3), pets are another potential source of infection (4,5). The overall risk for acquiring salmonellosis from pets is low; however, the risk is increased with exposure to animals with high fecal carriage rates of *Salmonella*. In general, carriage rates are higher in animals that are young, have diarrhea, or live in overcrowded conditions (4). Reported carriage rates are highest in reptiles (as high as 90%), and lowest in dogs and cats (4). Carriage rates have not been reported for African pygmy hedgehogs.

The investigation of this case and a recent report involving reptile-associated transmission of *Salmonella* (5) underscore the potential risk for transmission of *Salmonella* from an infected pet to members of the household who do not have direct contact with the pet. This risk can be reduced by handwashing after handling of pets, especially before eating or handling food, and by avoiding contact with pets' feces (6).

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\*On June 21, the Texas Department of Health reported to CDC the second human infection with *Salmonella* Tilene in the United States; the patient's family owned a hedgehog.

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